



LS-7001

Controller, without Monitor Function



SPECIFICATIONS

Model	LS-7001 ¹		
Type	Standard		
No. of connectable sensor heads	2 (fully compatible for all head types except monitor (M) models)		
Display	Measurement display	Main display: 7-segment red LED (Character height: 20.3 mm) Sub-display: 7-segment red LED (Character height: 9.9 mm) x 3	
	Minimum display unit	0.01 to 100 μm (7-level selectable)	
	Display range	± 99.99999 to 9,999.9 mm (Linked to minimum display unit setting, mm/ μm selectable)	
	Measurement position monitor	7-level display with a red LED	
	Tolerance check output display	Green LED (GO), Red LED x 2 (HI, LO)	
Input terminal block	Synchronous 1, 2 input	Non-voltage input for OUT1	
	Auto-zero 1, 2 input		
	Reset 1, 2 input		
	Statistics 1, 2 input	-	
	Program selection input	Non-voltage input x 4 inputs	
Output terminal	Analogue voltage output	± 10 V x 2 outputs	
	Alarm output	NPN open-collector output (N.C.)	
	Total judgment output	NPN open-collector output for OUT1	
	Comparator ready output		
	Strobe 1, 2 output		
Connector I/O	SUB mode	Statistical processing output	-
		Function output	Selectable from focus, area check, and differential, NPN open-collector output x 2 outputs ²
		5-level comparator output	NPN open-collector output for OUT2 ²
		Comparator ready output	
		Strobe output	
	BCD mode	BCD output	Measurement data output (Sign + 7 digits), OUT1/OUT2 selectable, NPN open-collector output ²
		BCD selection output	NPN open-collector output ²
		BCD selection input	Non-voltage input ²
	Statistical processing input	-	
	Synchronous input	Non-voltage input for OUT2	
	Reset input		
Auto-zero input			
Interface	RS-232C	Measurement data output and control I/O, printer (Baud rate can be selected up to 115,200 bps.)	
Video output	-		
Major functions	Simultaneous measurement, Area designation, Calculation, Averaging, Calibration, 16-program memory, Measurement modes, Auto-zero, Print-out, Abnormal value elimination, Transparent object measurement, Mutual interference prevention, etc.		
Rating	Power voltage	24 VDC ± 10 % ³	
	Power consumption	0.7 A max. ³	
Environmental resistance	Enclosure rating	IP64 (Panel surface only)	
	Ambient temperature	0 to +40 °C	
	Relative humidity	35 to 85 % RH (No condensation)	
Weight	Approx. 820 g		

¹ The rating of the NPN open-collector inside the terminal block is: 100 mA max. (40 V max.), residual voltage of 0.5 V max.
The rating of the NPN open-collector inside the connector I/O is: 30 mA max. (30 V max.), residual voltage of 0.5 V max.
The rating of non-voltage input is: ON voltage of 1 V max., OFF current of 0.6 mA max.

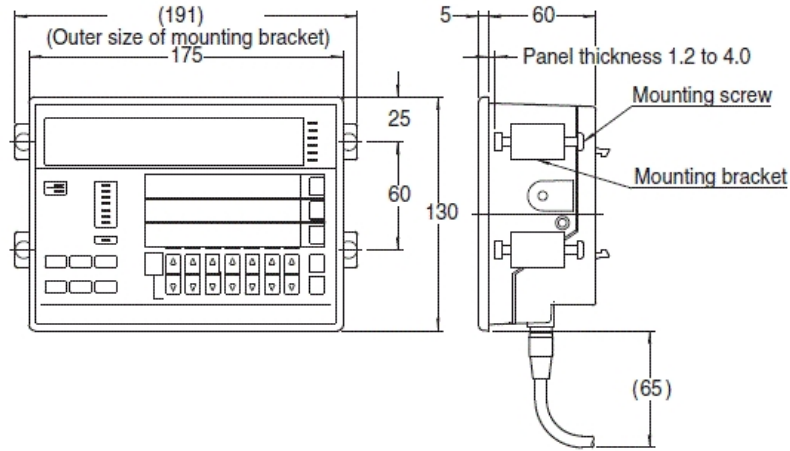
² Either SUB mode or BCD mode can be selected.

³ AC power supply can be used when the LS-S11 (AC power supply stand) is connected.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

■ LS-7000 Controller



Panel Mounting Dimensions

